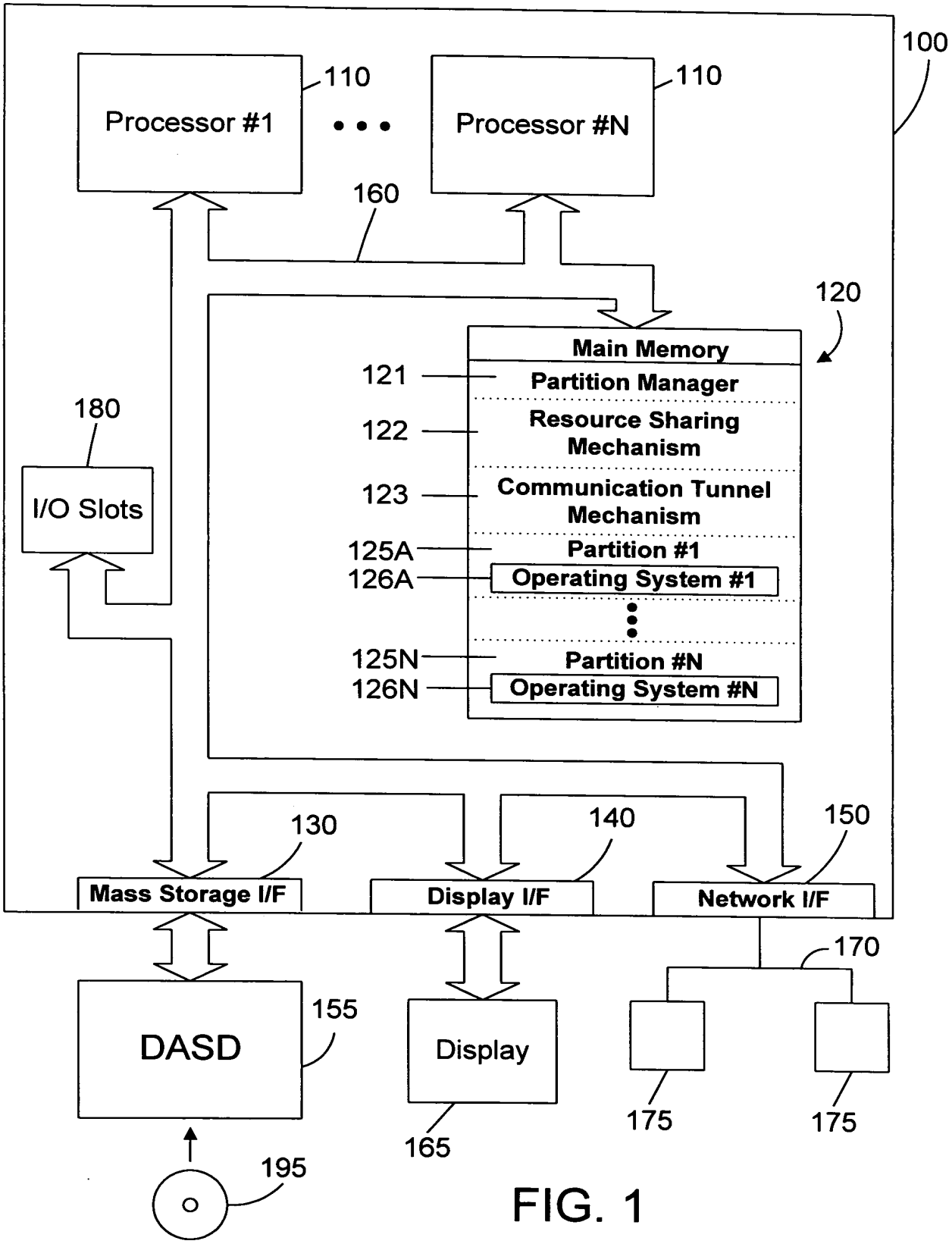
100
Processor #1
110
Processor #N
110
160
120
Main Memory
121
Partition Manager
122
Resource Sharing Mechanism
123
Communication Tunnel Mechanism
125A
Partition #1
126A
Operating System #1
125N
Partition #N
126N
Operating System #N
180
I/O Slots
130
140
150
Mass Storage I/F
Display I/F
Network I/F
170
DASD
155
Display
165
175
175
195

FIG. 1

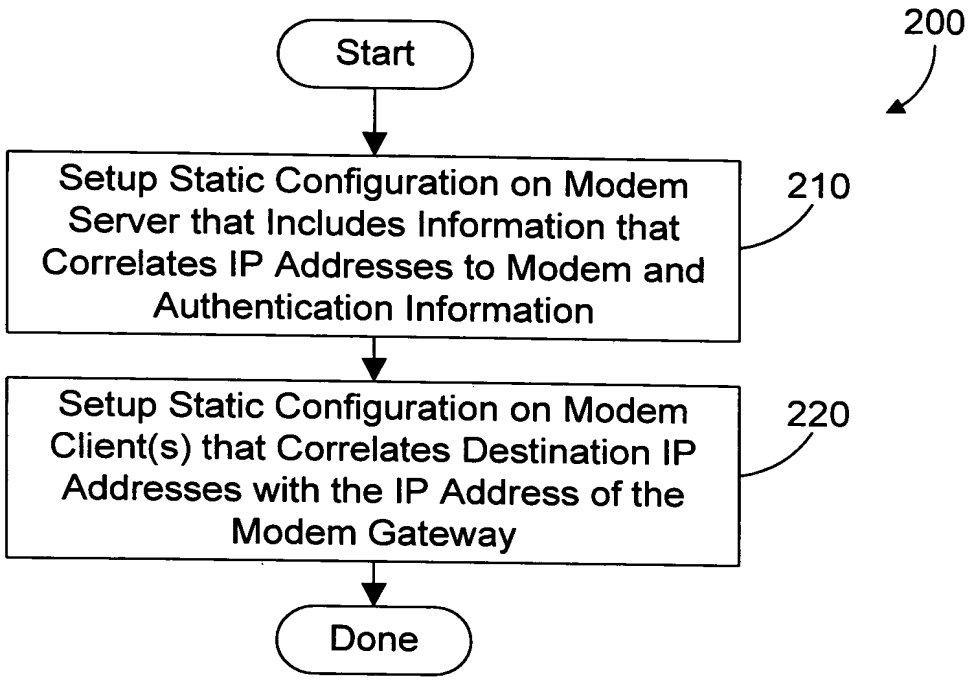

FIG. 2 Prior Art

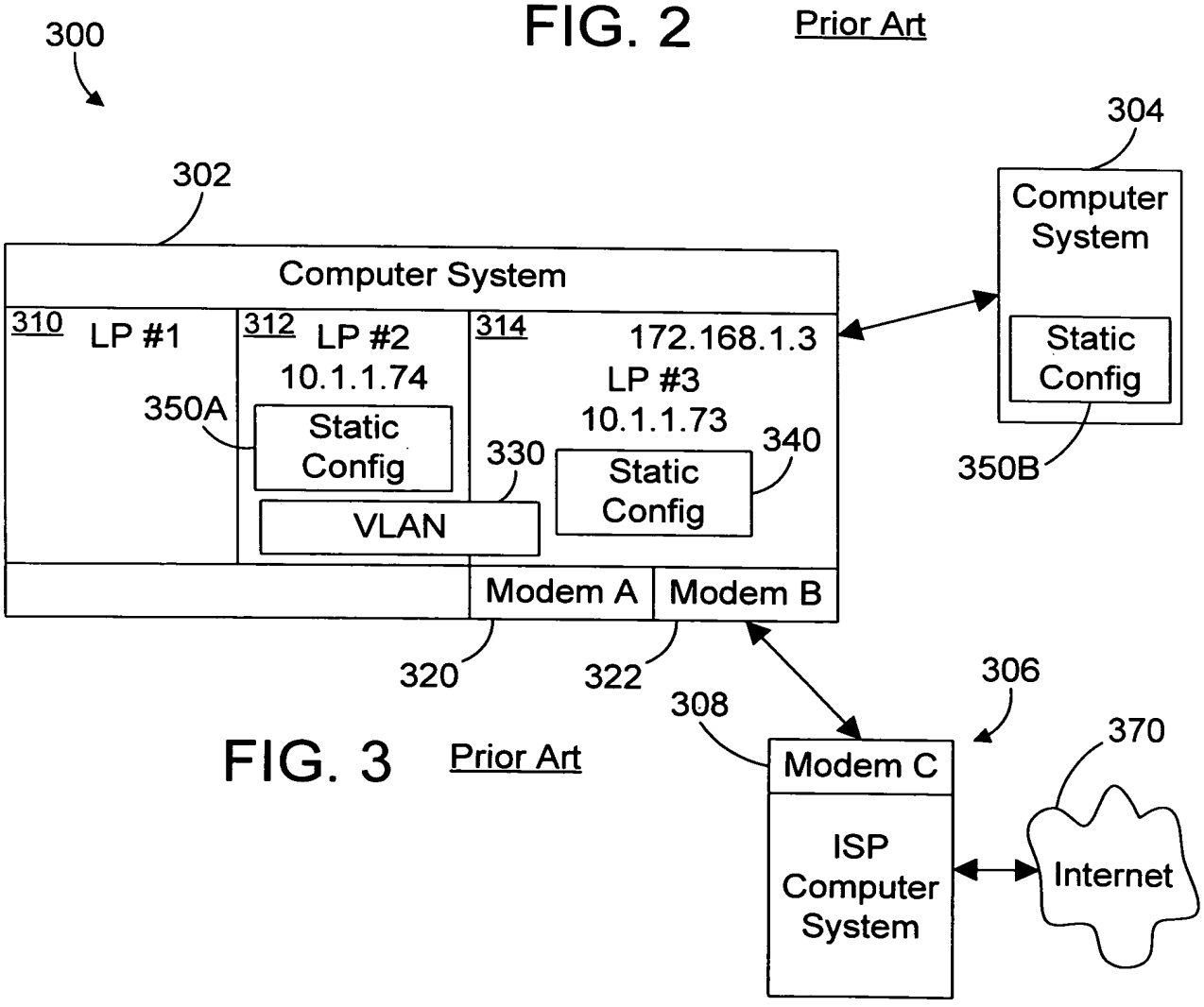

FIG. 3 Prior Art

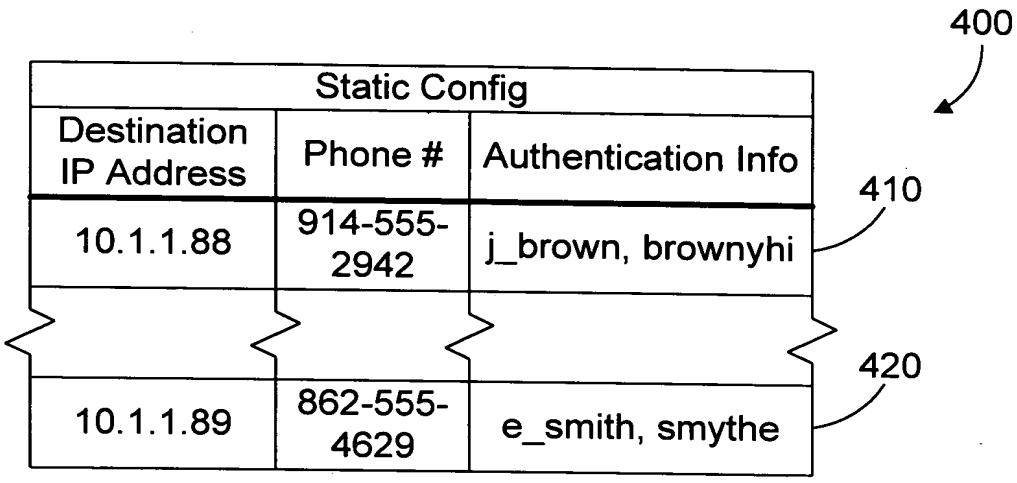

FIG. 4 Prior Art

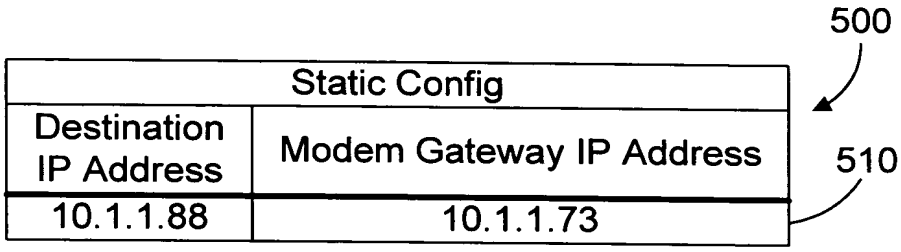

FIG. 5 Prior Art

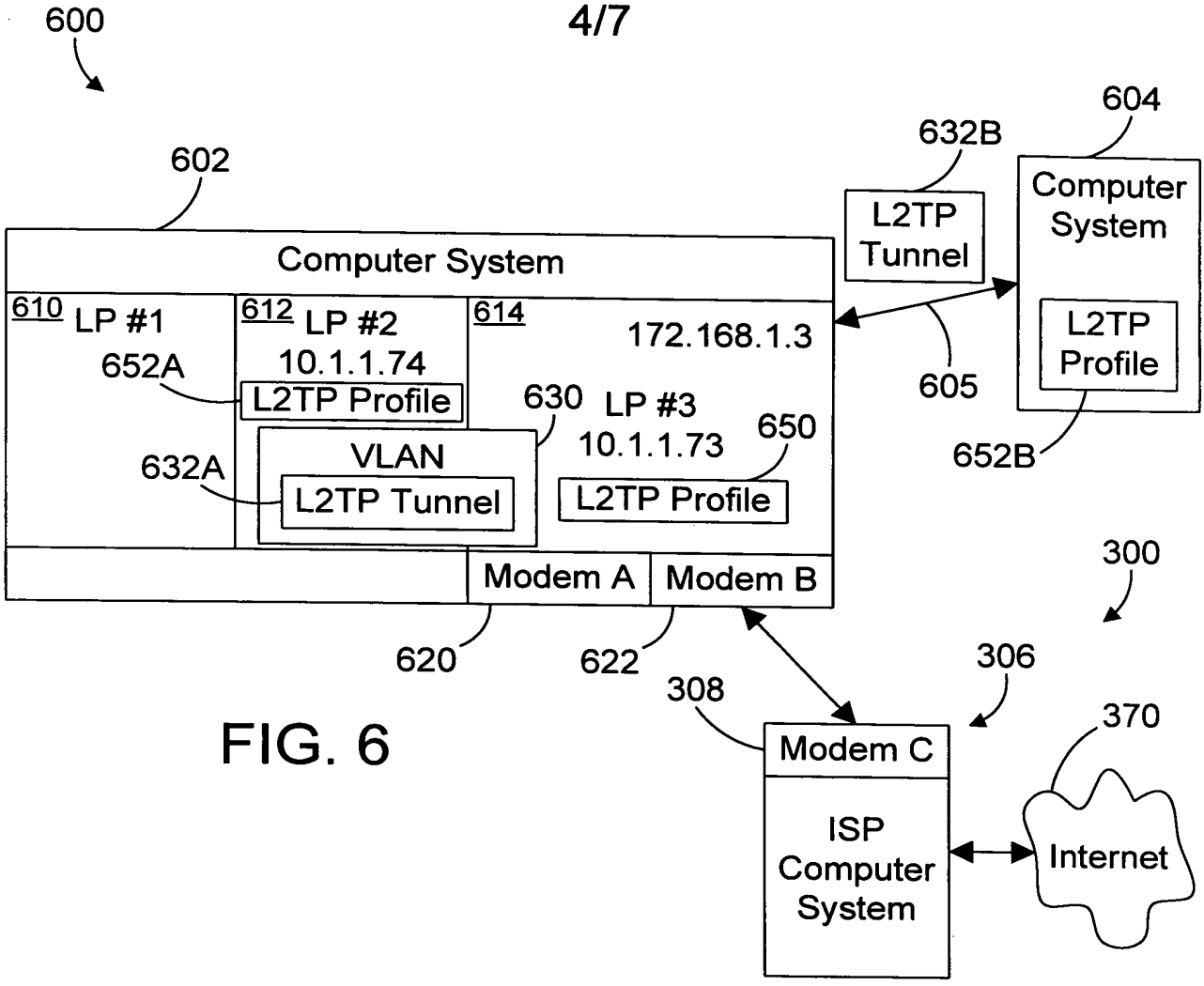
600
602
604
632B
L2TP Tunnel
Computer System
Computer System
610 LP #1
652A
612 LP #2
10.1.1.74
L2TP Profile
614
172.168.1.3
605
L2TP Profile
652B
630 LP #3
10.1.1.73
650
632A
VLAN
L2TP Tunnel
L2TP Profile
300
Modem A
Modem B
620
622
306
308
370
Modem C
ISP Computer System
Internet

FIG. 6

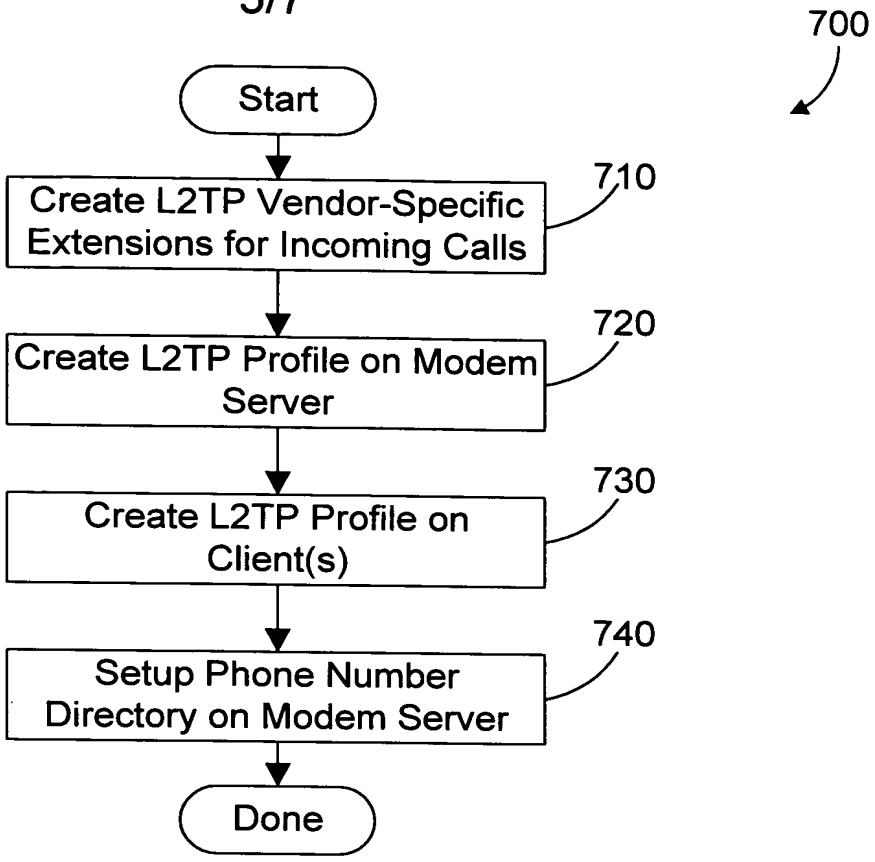
700
Start
Create L2TP Vendor-Specific Extensions for Incoming Calls
710
Create L2TP Profile on Modem Server
720
Create L2TP Profile on Client(s)
730
Setup Phone Number Directory on Modem Server
740
Done

FIG. 7

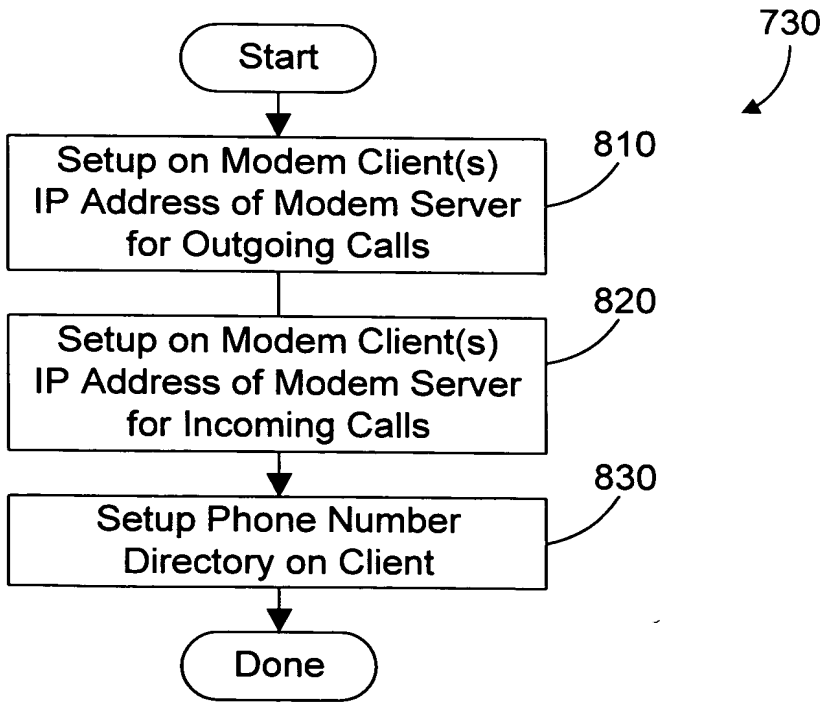
730
Start
Setup on Modem Client(s) IP Address of Modem Server for Outgoing Calls
810
Setup on Modem Client(s) IP Address of Modem Server for Incoming Calls
820
Setup Phone Number Directory on Client
830
Done

FIG. 8

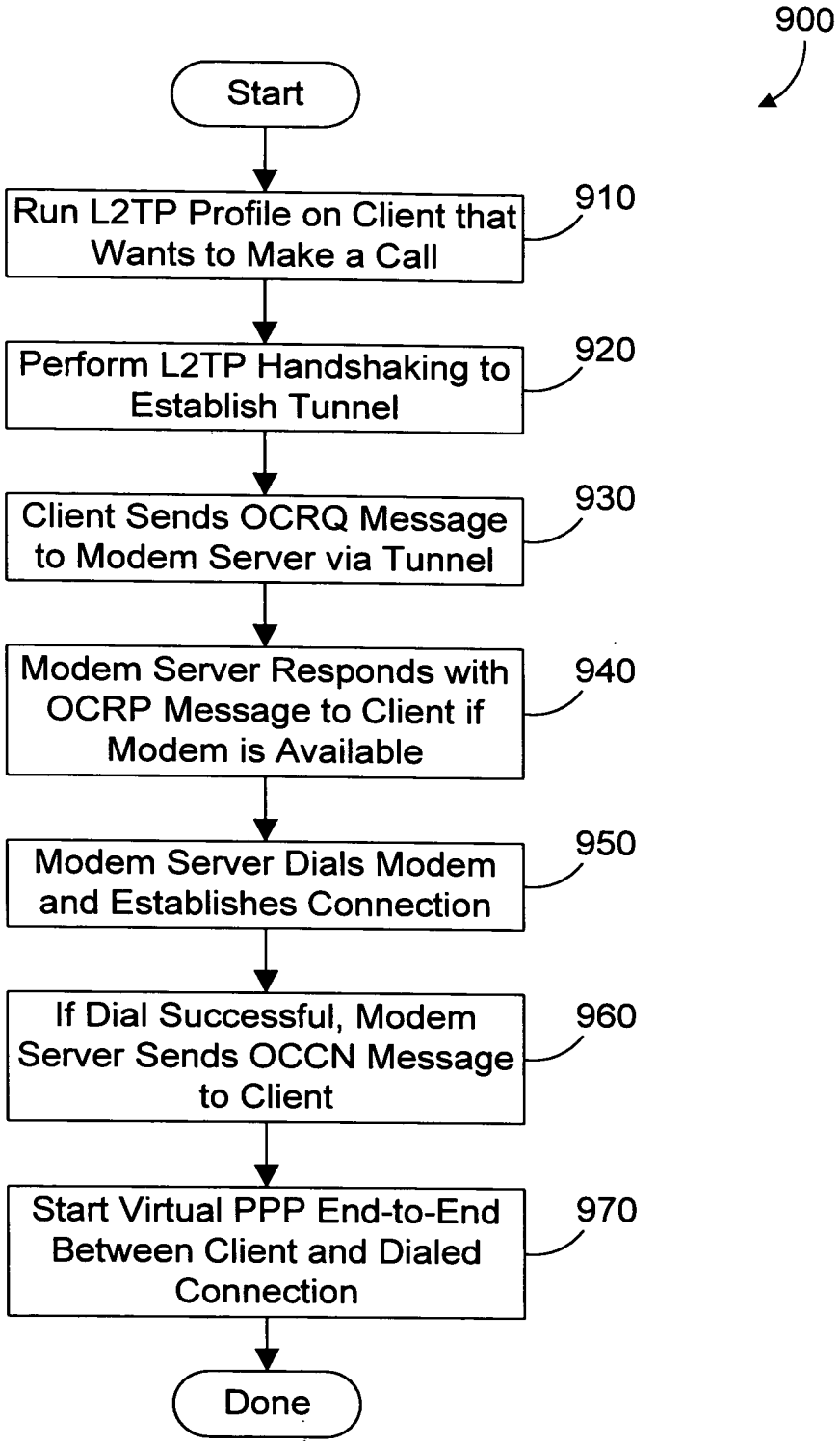
900
Start
Run L2TP Profile on Client that Wants to Make a Call
910
Perform L2TP Handshaking to Establish Tunnel
920
Client Sends OCRQ Message to Modem Server via Tunnel
930
Modem Server Responds with OCRP Message to Client if Modem is Available
940
Modem Server Dials Modem and Establishes Connection
950
If Dial Successful, Modem Server Sends OCCN Message to Client
960
Start Virtual PPP End-to-End Between Client and Dialed Connection
970
Done

FIG. 9

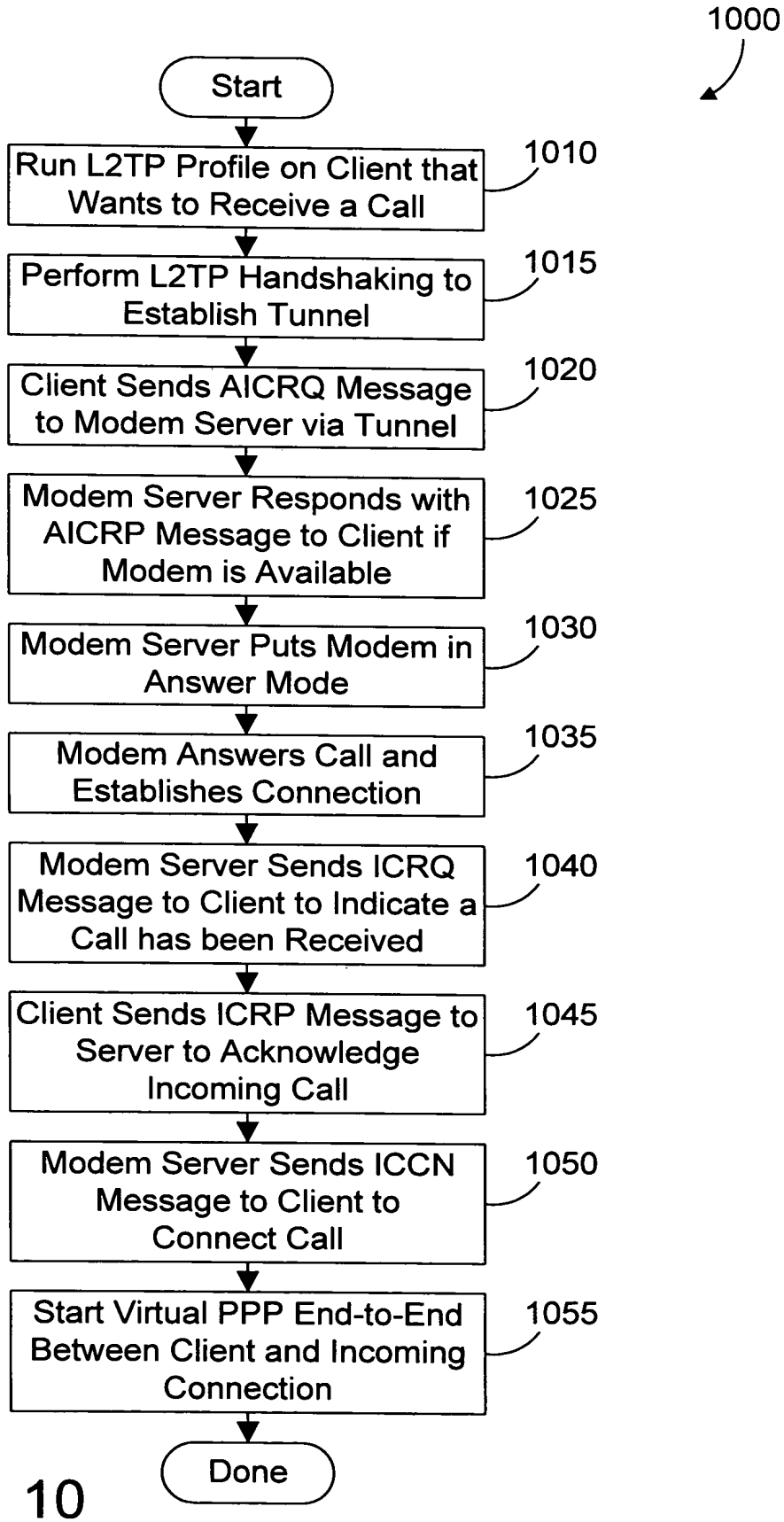
1000
Start
Run L2TP Profile on Client that Wants to Receive a Call
1010
Perform L2TP Handshaking to Establish Tunnel
1015
Client Sends AICRQ Message to Modem Server via Tunnel
1020
Modem Server Responds with AICRP Message to Client if Modem is Available
1025
Modem Server Puts Modem in Answer Mode
1030
Modem Answers Call and Establishes Connection
1035
Modem Server Sends ICRQ Message to Client to Indicate a Call has been Received
1040
Client Sends ICRP Message to Server to Acknowledge Incoming Call
1045
Modem Server Sends ICCN Message to Client to Connect Call
1050
Start Virtual PPP End-to-End Between Client and Incoming Connection
1055
Done

FIG. 10